

## 2.7) DNA Flowchart

1. Every cell in your body contains 46 chromosomes. Draw a diagram of a cell with a nucleus and show where the chromosomes are.

2. Chromosomes are found in pairs which have the same \_\_\_\_\_ and appearance and contain the same type of \_\_\_\_\_. Draw a diagram of a pair of chromosomes and label then centromere and chromatids

3. Every chromosome consists of one large molecule of DNA. What does this stand for?

\_\_\_\_\_ It is approximately 3 m in length. Draw a simple diagram of the double helix DNA molecule.

5. List the individual bases

Draw a segment of DNA showing the complementary base pairs, the sugar and the phosphate units.

4. DNA contains over 10,000 genes. A gene is a section of the DNA, up to 1000 bases. Genes contain a set of \_\_\_\_\_

\_\_\_\_\_ These proteins are used to build specialised cells such as liver cells and heart cells. Genes control your hair, eye and skin colour, \_\_\_\_\_

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